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Numerical Results of the Field Experiments 1969

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69/R/W/12 - Varieties, N & Ethirimol - Spring Wheat

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SPRING WHEAT

(69/R/W/12)

Varieties, N and ethirimol ('Milstem' or 'PP149'), Whittlocks 1969.

Design: 4 randomised blocks of 10 plots, split into 3.

Area of each sub plot: 0.0080. Area harvested: 0.0053.

Treatments: All combinations of:-

- Whole plots: 1. Varieties: Kloka (KL), Kolibri (KO), Maris Ensign (ME), Rothwell Sprite (RS), Troll (T).
2. Fungicide: None (O) ethirimol as seed dressing at 1 lb (F).
Sub plots: 3. Nitrogen: 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt (0.5 cwt N in basal compound, remainder as 'Nitro-Chalk').

NOTE: A sixth variety was included but the germination of the seed was poor and the results have been omitted.

Basal applications: 370 lb (15:15:15) combine drilled.
Weedkillers: 2,4-D at 8 oz and dichorprop at 32 oz in 20 gals.

Cultivations, etc.: Ploughed: 21 Nov, 1968. Seed drilled at 185 lb*: 3 Apr, 1969. 'Nitro-Chalk' applied: 11 Apr. Weedkiller applied: 22 May. Combine harvested: 3 Sept. Previous crops: Spring beans 1967, winter wheat 1968.

* Rothwell Sprite at 165 lb because its germination was better than the other varieties.

NOTE: Samples were taken for assessment of mildew (*Erysiphe graminis*) and other foliar diseases.

Standard errors per plot.

Grain, cwt: Whole plot: 1.64 or 4.5% (27 d.f.)
Sub plot: 2.16 or 5.9% (60 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

	KL	KD	ME	RS	T	Mean
			(±0.82)			(±0.37)
O	33.5	42.2	38.4	32.9	36.5	36.7
F	33.0	40.9	37.4	32.9	36.3	36.1
			(1) and (2)			(±0.34)
N1	31.4	37.3	35.9	30.7	35.3	34.1
N2	34.9	43.2	39.6	33.8	38.3	38.0
N3	33.5	44.1	38.1	34.1	35.6	37.1
Mean (±0.58)	33.2	41.5	37.9	32.9	36.4	36.4

Mean D.M.%: 82.6

- (1) (±0.85) For use in horizontal and diagonal comparisons only
 (2) (±0.76) For use in vertical and interaction comparisons only